Name _____

6-2 Reteach to Build Understanding

Exponential Functions

1. Label the parts of the exponential function shown.

$f(x) = ab^x$

_____ _____

2. Fill in the blanks with numbers or equations to describe the function represented by the table.

x	$f(x)$
0	5
1	10
2	20
3	40
4	80

$10 \div 5 =$ ___
$20 \div 10 =$ ___
$40 \div 20 =$ ___
$80 \div 40 =$ ___

The initial amount is _____.

The constant ratio is _____.

In $f(x) = ab^x$, substitute _____ for a and _____ for b.

The function represented by the table is _____.

3. Describe and correct the error that Isabella made when writing an exponential function.

x	$f(x)$
0	2
1	6
2	18
3	54
4	162
5	486

$6 \div 2 = 3$
$18 \div 6 = 3$
$54 \div 18 = 3$
$162 \div 54 = 3$
$486 \div 162 = 3$

starting value = 2

constant ratio = 3

$f(x) = 2x^3$